

ABSTRACT OF THE DISCLOSURE

A moving magnet type linear actuator long in service life having no effect on a linear guide even in the case of performing a highly-frequent acceleration/deceleration operation is provided. In a moving magnet type linear actuator comprising a stator unit (30) including a stator base (31), a magnetic core (33) and an armature unit (32), and a moving unit (20) including a field permanent magnet (21) arranged so as to face the magnetic core (33) via a magnetic first gap (ga) and a magnet holder (22) of nonmagnetic material movably disposed on the stator base (31) while holding the field permanent magnet (21), and a magnetic back yoke (39) is arranged at an anti-armature side of the field permanent magnet (21) via a magnetic second gap (gb) from the field permanent magnet (21), the magnetic second gap (gb) is set to be larger than the magnetic first gap (ga).